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**Notes:**

1. Untranslatable words are replaced with asterisks (\*\*\*).
2. Texts in the figures are not translated and shown as it is.

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## FULL CONTENTS

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### [Claim(s)]

[Claim 1]Collagenase inhibitor which uses as an active principle one sort or two sorts or more of solvent extraction things of a group which consist of Jatoba, carba \*\* bow HINIA, boldus, cutlet arbours, MAITENO, and rose apples.

[Claim 2]An anti-aging cosmetic which blends collagenase inhibitor of Claim 1.

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### [Detailed Description of the Invention]

[0001]

[Field of the Invention]This invention relates to the cosmetic for anti-aging using collagenase inhibitor and collagenase inhibitor which have the outstanding collagenase inhibiting activity effective in the aging prevention of the skin.

[0002]

[Description of the Prior Art]In the aging skin, a change qualitative [ the collagen fiber which is a dermis matrix component, the elastin strand, and acid mucopolysaccharide ], and quantitative takes place with the activity fall of fibroblast. Since unusual aging bridge formation is formed, a collagen fiber is stiffened, and the tension which is rich in original elasticity is lost. The elastin in which the elastin strand carries out denaturation collapse, it changes and amino acid composition differs is produced by vicariousness, and a functional disorder advances. As a result, the skin loses plasticity and a wrinkle and sag generate it. In these physiological ageing skin, to the fall of proliferation potential and a physiological depression being observed, fibroblast carries out increase growth and it is said on the photoaging skin that collagen production ability is also accelerating. Although the tylosis of the face skin which one of the features expressed best is the thickness of the skin, and carried out photoaging of this remarkable control is carried out strongly, it is a usual state that the physiological ageing skin of the forearm inside becomes thin gradually. When you consider aging of the Homo sapiens skin, the defending method corresponding to these phenomena that carried out repulsion must be used. Research progresses in recent years and the matrix metallo protease (MMP) of various thing MATORIKISHIN families considered to play a role important for construction and constant maintenance of an organization has been refined. Although the collagenase in these matrix metallo protease, i.e., MMP-1, MMP-8, MMP-13, and MMP-18 are checked until now, Especially MMP-1 decomposes the collagen I

and III which is the main constituents of a skin dermis matrix, and it is participating in aging of the skin deeply. The denaturation of collagen and reduction give elasticity and Hari to the skin, and, as for them, it is important for the aging prevention of the skin to happen by the excessive manifestation of the collagenase which is collagenolytic enzyme, therefore to control the activity of collagenase. Till the present, . [ these skin aging ] some collagenase inhibitor and MMP inhibitors have been developed for the purpose to prevent (JP,9-40552,A, JP,10-194982,A, JP,11-71294,A, JP,11-79970,A, JP,11-147833,A, and JP,11-315008,A.) JP,2000-154131,A, JP,2000-159631,A, JP,2000-191512,A, JP,2000-212058,A, JP,2000-256176,A, JP,11-79971,A, JP,2000-191487,A, JP,2000-256122,A,JP,2000-319155,A, JP,2001-139466,A, JP,2001-192316,A, JP,2001-192317,A.

[0003]

[Problem to be solved by the invention]However, old collagenase inhibitor has not come to obtain the result enough an effect necessarily and effective in combination for a product.

[0004]

[Means for solving problem]This invention provides the anti-aging cosmetic which blended collagenase inhibitor and these which use as an active principle one sort or two sorts or more of solvent extraction things of a group which consist of Jatoba, carba \*\* bow HINIA, the boldus, cutlet arbours, MAITENO, and rose apples.

[0005]The Jatoba used by this invention is fruits of pulse family (Leguminosae) Hymenaea courbaril L. About Jatoba, testosterone 5alpha-reductase inhibitor (JP,7-258106,A), Although there was examination of histamine separation inhibitor, hyaluronidase inhibitor (JP,8-53360,A), whitening actions (JP,10-236943,A), elastase inhibitor (2000-72649), etc., it was not known as collagenase inhibitor until now.

[0006]KARUBA used by this invention is a leaf of Bignoniaceae (Bignoniaceae) Jacaranda procera Sprengel and other species of the same genus. It is used as a folk medicine with carba \*\* and South America native vegetation.

[0007]Bow HINIA used by this invention is a leaf of pulse family (Leguminosae) Bauhinia forficata L. and other species of the same genus. There is a name of PATA DE VACA with South America native vegetation. Although there was examination of an antiandrogen agent (JP,5-70360,A), testosterone 5alpha-reductase inhibitor (JP,7-258106,A), whitening effect (JP,8-12564,A), etc. about Bauhinia group vegetation, it was not known as collagenase inhibitor until now.

[0008]The boldus used by this invention is a leaf of department (Monimiaceae) boldus Peumus boldus Morina of MONIMIA. It is widely used as an oral medicine in Europe with the . South America dust native vegetation which has another vegetation names, such as Boldoa fragrans Gay. or Ruizia fragransPavomdago, in this vegetation. Although the external-preparations (JP,6-168691,A) moisturizing effect for whitening (JP,2000-336024,A), etc. were examined, it was not known about collagenase inhibitor until now.

[0009]With the cutlet arbour used by this invention, Erythroxylaceae (Erythroxylaceae) Erithroxylum catuaba Arr.Cam., It is a leaf of Erithroxylum macrophyllum Cav. or Erithroxylum vacciniifolium Mart. Although examination of prophylaxis against AIDS (JP,5-286866,A), histamine separation inhibitor, hyaluronidase inhibitor (JP,8-53360,A), etc. was carried out, it was not known about collagenase inhibitor until now.

[0010]MAITENO used by this invention is a leaf of Celastraceae (Celastraceae) Maytenusilicifolia Mart. and other species of the same genus. Although there was examination of a whitening agent and an anti-oxidant (JP,10-265331,A), it was not known about collagenase inhibitory action until now.

[0011]The rose apple used by this invention is branches and leaves of Myrtaceae (Myrtaceae) rose apple *Syzygium jambos*(L.) Alston. Although examination of an active oxygen erasing agent, an aldose reductase inhibitory action agent (2000-143525), etc. was carried out, it was not known about collagenase inhibitory action until now.

[0012]using various solvents, for example, although the preparing method in particular of the extract used by this invention is not limited -- warming from low temperature -- the method of downward extracting is raised.

[0013]As an extracting solvent, concretely Low-grade monohydric alcohols, such as water, methanol, and ethanol, Lower alkyl ester, such as liquefied polyhydric alcohols, such as glycerol, propylene glycol, dipropylene glycol, and 1,3-butanediol, and ethyl acetate, is illustrated, and these kinds or two sorts or more of mixed solvents can be used.

[0014]Although it may use as it is, necessity is accepted, it may filter and the extract used by this invention may be condensed. an extract -- the column chromatography method, a countercurrent distribution method, etc. -- fractionation -- it can also refine and use.

[0015]Reduced pressure drying or after freeze-drying, it prepares to powder or paste state, and the above-mentioned thing can be pharmaceutical-preparation-ized suitably, and can also be used.

[0016](Example 1 of extract manufacture) The 50vol% ethanol solution 300g is added to 20 g of manufacture Jatoba of a Jatoba extract, and it extracts at 50 \*\* for 8 hours, and after the cold, it filters and a Jatoba extract is \*(ed). The evaporation residue of the product was 2.49%.

[0017](Example 2 of extract manufacture) 300 g of 70vol% ethanol is added to 20 g of process carba of a carba extract, and it extracts for five days at a room temperature. This is filtered and concentration hardening by drying is carried out. the 50 weight % (it may only be "%" hereafter) 1,3-butanediol solution 300g -- warming -- it dissolves and a carba extract is \*(ed). The evaporation residue of the product was 3.62%.

[0018](Example 3 of extract manufacture) The 30vol% ethanol solution 300g is added to 20 g of process bow HINIA of a bow HINIA extract, and it extracts at 50 \*\* for 8 hours. This is filtered and concentration hardening by drying is carried out under a reduced pressure of filtrate. After dissolving a hardening-by-drying thing in 300 g of 1,3-butanediol 50%, it filters and a bow HINIA extract is \*(ed). Evaporation residue was 3.47%.

[0019](Example 4 of extract manufacture) The 30vol% ethanol solution 300g is added to 20 g of process boldus of a boldus extract, and it extracts at 50 \*\* for 8 hours. This is filtered and concentration hardening by drying is carried out under a reduced pressure of filtrate. It filters and a boldus extract is \*(ed), after dissolving a hardening-by-drying thing in 300 g of 1,3-butanediol 50%. The evaporation residue of the product was 3.79%.

[0020](Example 5 of extract manufacture) The 50vol% ethanol solution 3000g is added to 200 g of process cutlet arbours of a cutlet arbour extract, and it extracts at 50 \*\* for 8 hours. After carrying out a cold back fault, it condenses and dips in the column filled up with synthetic adsorbent diagram ion HP-20. It is eluted with a 50vol% ethanol solution after a flush, an eluate is dissolved in the 1,3-butanediol solution 500g 50% after reduced pressure hardening by drying, and a cutlet arbour extract is \*(ed). The evaporation residue of the product was 3.17%.

[0021](Example 6 of extraction manufacture) The 30vol% ethanol solution 300g is added to 20 g of process MAITENO of a MAITENO extract, and it extracts at 50 \*\* for 8 hours. This is filtered and concentration hardening by drying is carried out under a reduced pressure of filtrate. It filters and a

MAITENO extract is **2**(ed), after dissolving a hardening-by-drying thing in 300 g of 1,3-butanediol 50%. The evaporation residue of the product was 1.77%.

[0022](Example 7 of extraction manufacture) The 50vol% ethanol solution 3000g is added to 200 g of process rose apples of a rose apple extract, and after performing churning extraction for 8 hours and carrying out a cold back fault at 60 **2**, it condenses and dips in the column filled up with synthetic adsorbent diagram ion HP-20. It is eluted with a 50vol% ethanol solution after a flush, an eluate is dissolved in the ethanol solution 300g 30% after reduced pressure hardening by drying, and a rose apple extract is **2**(ed). The evaporation residue of the product was 2.38%. [0023]Although the extract of this invention can be used as it is as collagenase inhibitor and also it can be blended with skin external preparations and baths as an anti-aging cosmetic, the loadings in particular are not specified. Although it changes with grades of the kind of product to blend, description, quality, and the effect to expect, it converts into dry solid matter and is desirable from the field of an effect 0.0001 to 10.0% 0.001 to 5.0% of especially preferably.

[0024]If needed, the kola GENAZEZE inhibitor and the anti-aging cosmetic to blend of this invention are a range which does not spoil the effect of this invention, and can use together and manufacture the component and additive which are used for drugs, quasi drugs, cosmetics, etc. It is as follows when the example of these addition ingredients is shown.

[0025]As a surface active agent, the base for soap, fatty acid soap, high-class alkyl-sulfuric-acid ester, Alkyl ether sulfuric ester salt, N-acyl sarcosine acid, a higher fatty acid amidosulfonic acid salt, Phosphate, sulfo succinate, alkylbenzene sulfonates, N-acyl glutamate, higher fatty acid ester sulfate ester salt, sulfated oil, POE alkyl ether carboxylate, POE alkyl allyl ether carboxylate, alpha-olefin sulfonate, higher fatty acid ester sulfonate, second class alcoholic sulfuric ester salt, Anionic surface active agents, such as higher fatty acid ARUKI roll amidosulfuric acid ester salt, lauroyl-monoethanol-amide succinate, N-palmitoyl aspartic acid JITORI ethanolamine, and casein sodium. Alkyl trimethylammonium salt, a dialkyl dimethylannmonium salt, An alkyl pyridium salt, alkyl quarternary ammonium salt, alkyldimethyl benzylammonium salt, Cationic surface active agents, such as an alkyl iso kino NIUMU salt, dialkylmorphonium salt, POE alkylamine, an alkylamine salt, polyamine fatty acid derivatives, amyl alcohol fatty acid derivatives, a benzalkonium chloride, and benzethonium chloride. Amphoteric surface active agents, such as an imidazoline system surface active agent and a betaine series surface active agent. Oleophilic nonionic surface active agents, such as sorbitan fatty acid ester, glycerine fatty acid ester, propylene glycol fatty acid ester, a hydrogenated-castor-oil derivative, glycerol alkyl ether, and a polyoxyethylene methylpolisiloxane copolymer. POE sorbitan fatty acid ester, POE sorbitol fatty acid ester, POE glycerine fatty acid ester, POE fatty acid ester, POE alkyl ether, POE alkylphenyl ether, POE-POP alkyl ether, Tetra POE and a tetra POP ethylenediamine condensation thing, a POE hydrogenated-castor-oil derivative, Hydrophilic nonionic surface active agents, such as a POE yellow-bees-wax lanolin derivative, alkanolamide, POE propylene glycol fatty acid ester, POE alkylamine, POE fatty amide, and sucrose fatty acid ester, are mentioned.

[0026]As oil, avocado oil, olive oil, sesame oil, camellia oil, Oenotherae Biennis oil, A turtle oil, a maca DEMIAN nuts oil, corn oil, a mink oil, rapeseed oil, An egg yolk oil, a par chic oil, a wheat germ oil, a sasanqua oil, castor oil, the linseed oil, Safflower oil, cotton seed oil, perilla oil, soybean oil, arachis oil, tea seed oil, kaya oil, Animal and vegetable oils and its hardened oils, such as rice bran oil, tung oil, jojoba oil, cacao butter, palm oil, horse oil, palm oil, palm kernel oil, beef tallow, mutton tallow, lard, lanolin, spermaceti wax, yellow bees wax, a carnauba wax, Japan wax, a candelilla low, and squalane.

Mineral oil, such as liquid paraffin and vaseline. There are synthetic triglycerols, such as tripalmitin acid glycerol.

[0027]As a higher fatty acid, for example Lauric acid, myristic acid, palmitic acid, There are oleic acid, linolic acid, linolenic acid, stearic acid, behenic acid, 12-hydroxy stearic acid, isostearic acid, a UNDESHIN acid, a torr acid, eicosapentaenoic acid, docosahexaenoic acid, etc. As a higher alcohol, for example Lauryl alcohol, cetyl alcohol, Stearyl alcohol, behenyl alcohol, myristyl alcohol, There are oleyl alcohol, cetostearyl alcohol, a jojoba alcohol, a lanolin alcohol, batyl alcohol, 2-decyltetra TESESHI Norian, cholesterol, phytosterol, isostearyl alcohol, etc. As synthetic ester, for example Octanoic acid Sept Iles, myristic acid octyldodecyl, There are isopropyl myristate, myristic acid myristyl, isopropyl palmitate, butyl stearate, hexyl laurate, ORENI acid decyl, dimethyloctanoic acid, lactic acid Sept Iles, lactic acid myristyl, etc. As silicone, there are a thing of three-dimensional networks, such as annular polysiloxane, such as catenoid polysiloxane, such as dimethylpolysiloxane and methylphenyl polysiloxane, and decamethyl cyclo polysiloxane, and silicone resin, etc., for example.

[0028]As a moisturizer, for example Glycerol, propylene glycol, 1,3-butanediol, Dipropylene glycol, polyethylene glycol, hexylene glycol, There are various others and animals-and-plants extracts, a yeast extract, etc. which are xylitol, sorbitol, maltitol, chondroitin sulfate, hyaluronic acid, mucoitinsulfuric acid, atelocollagen, urea, sodium lactate, bile salt, dl pyrrolidone-carboxylic-acid salt, soluble collagen, etc.

[0029]As an ultraviolet ray absorbent, benzoic acid series ultraviolet ray absorbents, such as p aminobenzoic acid and an paraamino benzoic acid derivative, Anthranilic acid series ultraviolet ray absorbents, such as gay menthyl N-acetyl anthranilate, Cinnamic acid system ultraviolet ray absorbents, such as salicylic acid system ultraviolet ray absorbents, such as an amyl SASHIRI rate, and octyl cinnamate, There are benzophenone series ultraviolet ray absorbents, such as 2,4-dihydroxy benzophenone, 4-methylbenzylene camphor, 3-benzylene camphor, 2-phenyl-5-methylbenzoxanol, etc.

[0030]As vitamin, for example Vitamin A, such as oleovitamin and retinol, Vitamins B6, such as vitamins B2, such as riboflavin, and pyridoxine hydrochloride, There are vitamin E, such as nicotinic acid, such as vitamin D, such as pantothenic acid, such as vitamin C, such as L-ascorbic acid, and calcium pantothenate, and ERUGOKARUSHI phenol, and nicotinamide, and acetic acid TOKOFE Norian, vitamin P, biotin, etc.

[0031]As a natural water solubility polymer, for example Gum arabic, tragacanth gum, Galactan, a guar gum, carob gum, karaya gum, a carrageenan, There are pectin, agar, quince seed, ARUGE colloid, a starch, xanthan gum, dextran, SAKUSHINO glucan, pullulan, collagen, casein, hyaluronic acid, albumin, gelatin, etc. As a semisynthesis water soluble polymer, there are alginic acid system polymers, such as starch system polymers, such as cellulose system polymers, such as methyl cellulose, cellulose nitrate, and carboxymethylcellulose sodium, and carboxymethyl starch, and sodium alginate, etc., for example. As a synthetic water soluble polymer, for example Vinyl system polymers, such as polyvinyl alcohol and a carboxyvinyl polymer, There are acrylic polymers, such as copolymerization polymer systems, such as a polyoxyethylene system polymer of polyethylene glycol 2000 grade and a polyoxyethylene polyoxypropylene copolymer, and polyacrylamide, polyethyleneimine, cation polymer, etc.

[0032]As a powder constituent, for example A talc, kaolin, mica, sericite, There are organic powder, such as inorganic powder, such as magnesium carbonate, calcium carbonate, silicate, silica, barium

sulfate, calcined gypsum, a fluorine apatite, and ceramic powder, nylon powder, polyethylene powder, polystyrene powder, and cellulose powder, etc. As a pigment agent, there are plant extract pigments, such as natural coloring matter, such as organic pigments, such as inorganic pigments, such as titanium dioxide, iron oxide, carbon black, and cobalt violet, the red No. 201, the red No. 3, the yellow No. 205, and the yellow No. 4, chlorophyll, riboflavin, and beta-carotene, carthami flos, and curmae rhizoma, etc. As antiseptics, there are benzoate, salicylate, a sorbic acid salt, a dehydroacetic acid salt, parahydroxybenzoic acid ester, a benzalkonium chloride, hinokitiol, resorcinol, ethanol, etc. As an antioxidant, there are TOKOFE Norian, ascorbic acid, butylhydroxyanisole, dibutylhydroxytoluene, gallate, etc. As a chelating agent, there are sodium ethylenediaminetetraacetate, sodium polyphosphate, citric acid, etc.

[0033]The plant extracts which have bioactive operations, such as an anti-bacillus, cell activation, moisturization, sebum secretion adjustment, resolution, convergence, antioxidation, whitening, active oxygen inhibition, and antiallergic, and these extraction fractions, and refining things can also be used together. Perfume, an alcohol, water, etc. besides the above can be blended suitably.

[0034]The anti-aging cosmetic which blends collagenase inhibitor of this invention and this is not limited to a common skin cosmetic, and includes drugs, quasi drugs, a medicinal cosmetic, etc. Any, such as a solubilization system, an emulsification system, and a powder dispersed system, may be sufficient as the pharmaceutical form of the skin external preparation composition of this invention, A use does not ask toiletries products, such as charges of face make up, such as basic cosmetics, such as face toilet, a milky lotion, cream, and a pack, and foundation, a shampoo, rinse, soap, and body shampoo, baths, etc., either.

[0035]Next, although an embodiment is given and described, this invention is not limited to these embodiments.

[0036](Example 1 of an examination) It measured by the method (pharmaceutical-sciences magazines 118,423, 429, and 1998) which carried out the partial change of the evaluation Wunsch-Heidrich method of collagenase inhibiting activity. Collagenase considers it as 5 mg/mL, and TypeIV by Sigma is poured distributively every [ 100micro / L ], and it carries out cryopreservation. It diluted 50 times at the time of use, and was used as 0.1 mg/mL. The collagenase synthetic substrate was prepared to 0.5 mg of PZ-peptide (Pz-Pro-Leu-Gly-Pro-D-Arg-OH, product made by Bachem). 0.1M tris buffers (pH 7.1 and 20mM $\text{CaCl}_2$  are contained) were used for both diluents. The test solution added the 50vol% ethanol

solution to the dry matter 50g of each vegetation, and what dissolved with water what was freeze-dried after filtration and concentration after 8-hour extraction at 50 °C in 1 mg/mL was used for it.

[0037](Test method) After adding synthetic substrate 400microL, collagenase 50microL, and 50micro of test samples L and making it react for 30 minutes at 37 °C, 25mM citric acid solution 1mL was added, and the reaction was stopped. After adding ethyl acetate 5mL and making it shake violently, it centrifuged at 2500 rpm. The ethyl acetate layer was taken and absorbance was measured at 320 nm.

[0038]The collagenase inhibition rate was computed with the following formula from the result of a measurement.

Collagenase inhibition rate (%) =  $[1 - (A - B) / (C - D)] \times 100$  A: Absorbance D at the time of sample-solution addition, the absorbance B:sample-solution addition at the time of collagenase addition, the absorbance C:sample additive-free at the time of collagenase additive-free, and collagenase addition: At the absorbance at the time of sample additive-free and collagenase additive-free, however the time of additive-free [ each ], each water was used instead. Each inhibition rate is shown in Table 1.



[0039]

[Table 1]

	試験試料	阻害率
1	ジャトバ	50.7%
2	カルバ	32.2%
3	ボーヒニア	55.9%
4	ボルド	51.3%
5	カツアーバ	62.8%
6	マイテノ	61.3%
7	フトモモ	65.2%

[0040](Example 2 of an examination) In order to investigate the anti-aging effect of the anti-aging examination skin of the skin, the evaluation test was done by the following methods using the cosmetic of the presentation shown in the following Embodiments 1-7 and the comparative example 1 about the improvement effect over a crease, and the improvement effect over the beam of skin, and sag.

[0041]After making into the test subject the 70 healthy women of 40-50 years old of age who extracted at random and using every ten embodiments and comparative example cosmetics each for the face skin for two months every day, it investigated about the improvement effect over a crease, and the improvement effect over the beam of skin, and sag.

[0042](Embodiment 1) cream following component (1) - (10) -- another -- following component (11) - (16) -- 75 \*\* -- warming -- it dissolves and is considered as A liquid and B liquid, respectively. It cooled to 50 \*\*, adding, emulsifying and agitating B liquid in A liquid, the component (17) was added, and cream was prepared.

(Component) (weight %)

(1) Jojoba oil 3.0% (2) squalane . 2.0% (3) methylpolisiloxanes 0.5%. (4) Stearyl alcohol 0.5% (5) cetyl alcohol 0.5% (6) bird (capryl lactam capric acid) glyceryl 12.5% (7) monostearin acid glyceryl 5.0% (8) monostearin acid diglyceryl . 1.5% (9) monostearin acid decaglyceryl . 3.0% (10) propyl-parahydroxybenzoate . 0.1% (11) xanthan gum 0.1%. (12) Jatoba extract (example 1 of manufacture) 3.0% (13) glycerol 1.0% (14) 1,3-butanediol 5.0% 0.2% of (15) methyl parahydroxybenzoate (16) purified water 62.0% (17) perfume 0.1%

[0043](Embodiments 2-7) Embodiment 3 and the thing similarly used as the boldus extract (example 4 of manufacture) to Embodiment 4 and the appearance for Embodiment 2 and the thing similarly used as the bow HINIA extract (example 3 of manufacture) A cutlet arbour extract. [ what was changed to the Jatoba extract of Embodiment 1 and was used as the carba extract (example 2 of manufacture) ] Embodiment 5 and the thing similarly used as the MAITENO extract (example 6 of manufacture) are made into Embodiment 6, and what was similarly made into the rose apple extract (example 7 of manufacture) is made into Embodiment 7 for what was made into (the example 5 of manufacture).

[0044](Comparative example 1) In the cream embodiment 1, cream was prepared like Embodiment 1 except having replaced 3.0% of the Jatoba extract with 3.0% of purified water.

[0045] Vision evaluation of the status of the crease of an "improvement effect over crease" outer canthus was carried out.

(Acceptance criterion)

Effective : vision evaluation of the beam of the :-change[ effect-less ]-less "improvement effect over beam [ of skin ] and sag" skin to which the minor response:crease which the crease became and stopped being conspicuous stopped being conspicuous from before, and the sag was carried out.

(Acceptance criterion)

Effective Those without an effect in which skin has a beam compared with :use before, skin has a beam a little compared with minor-response:use before without sag, and sag decreased: With no change [0046]

[Table 2]

試験試料	判定	しわに対する改善効果	肌のはり、たるみに対する改善効果
実施例 1	有効	5	5
	やや有効	3	4
	効果なし	2	1
実施例 2	有効	3	3
	やや有効	4	4
	効果なし	3	3
実施例 3	有効	4	5
	やや有効	6	4
	効果なし	0	1
実施例 4	有効	4	4
	やや有効	4	5
	効果なし	2	1
実施例 5	有効	5	5
	やや有効	5	4
	効果なし	0	1
実施例 6	有効	4	3
	やや有効	4	4
	効果なし	2	3
実施例 7	有効	5	7
	やや有効	5	3
	効果なし	0	0
	有効	0	0



比較例 1	有効	0	0
	やや有効	4	7
	効果なし	6 6	6 3

[0047]When the cream of Embodiments 1-5 was used so that clearly from Table 2, having been improved in respect of the crease of an outer canthus and the beam of skin, and sag was admitted rather than the case where the cream of the comparative example 1 is used. It was checked that the cosmetic which blended a Jatoba extract, a carba extract, a bow HINIA extract, the boldus extract, the cutlet arbour extract, the MAITENO extract, and the rose apple extract has an anti-aging operation by this.

[0048]The example of a formula of this invention is shown further below.

[0049](Embodiment 8) Face toilet following component (5) The mixture solution of - (8) was carried out, and it was considered as A liquid, and this carried out the mixture solution of following component (1) - (4) and (9) independently, and considered it as B liquid, A liquid and B liquid were mixed equally, and face toilet was adjusted.

(Component) (weight %)

(1) Quince seed extractives 8.0% (2) glycerol . 3.0% (3) 1,3-butanediol . 5.0% (4) Jatoba extract (example 1 of manufacture) 2.0% (5) polyoxyethylene sorbitan laurate 1.2% (6) ethyl alcohol 5.0% (7) methyl parahydroxybenzoate 0.2% (8) perfume 0.1% (9) purified water 75.5% [0050](Embodiment 9) milky lotion following component (1) - (10) -- the heating and dissolving of (11) - (14) and (16) were independently carried out at 75 \*\*, and it was considered as A liquid and B liquid, respectively, and it cooled to 50 \*\*, adding, emulsifying and agitating B liquid in A liquid, the component (15) was added, and the milky lotion was prepared.

(Component) (weight %)

(1) Jojoba oil 1.0% (2) squalane . 2.0% (3) behenyl alcohol 1.0%. (4) Bird (capryl lactam GAPURIN acid) glyceryl . 2.0% (5) tetraglycerol condensation SHIRINO rhein acid . 0.1% (6) monooleic acid propylene glycol . 0.5% (7) glyceryl-monostearate . 1.0% (8) mono- MIRESUCHIN acid hexa glyceryl . 1.0% (9) monomyristic acid decaglyceryl . 0.5% (10) propyl-parahydroxybenzoate . 0.1% (11) quince seed extractives 5.0% 2.0% of (12) carba extract (example 2 of manufacture) (13) bow HINIA extract (example 3 of manufacture) 2.0% (14) 1,3-butanediol 3.0% (15) perfume 0.1% (16) purified water 78.7%

[0051](Embodiment 10) the law of soap soap manufacture -- the following component was mixed by the method and it \*(ed).

(Component) (weight %)

(1) Soap base 53.2% (2) scroll . 19.4% (3) jojoba-oil 0.25% cutlet [ (4) ] arbour extract (example 5 of manufacture) 2.5% (5) MAITENO extract (example 6 of manufacture) 2.5% (6) concentrated glycerin 6.5% (7) hydroxy ethanediphosphonic acid 0.15% (8) common water 15.5% [0052](Embodiment 11) cleansing cream gell following component (1) - (3) -- the heating and dissolving of (4) - (6) and (8) are independently carried out to 70 \*\*, and it is considered as A liquid and B liquid, respectively, and it agitates until it adds B liquid to A liquid and becomes uniform. It cooled to 50 \*\*, agitating, the component (7) was added, and cleansing cream gell was \*(ed).

(Component) (weight %)

(1) Hexamonomyristate glyceryl . 20.0% (2) liquid-paraffin 58.8% parahydroxybenzoic-acid [ (3) ] ester 0.3% (4) carba extract (example 2 of manufacture) 0.5% (5) rose-apple extract (example 7 of

manufacture) 0.5% (6) concentrated glycerin 5.9%. (7) Sorbitol 5.0% (8) perfume 0.1% (9) purified water 8.9%[0053](Embodiment 12) A packing agent A phase, B phase, and C phase are dissolved in homogeneity, respectively, and B phase is added and solubilized to A phase, subsequently C phase is added, and it dissolves uniformly, and \*\*.

(Component) (weight %)

(A phase) Dipropylene glycol 5.0%. Polyoxyethylene hydrogenated castor oil 5.0%. (B phase) Olive-oil 5.0% acetic acid TOKOFE Norian . 0.2% parahydroxybenzoic acid ester 0.2% sodium hydrogensulfite [ ] (C phase) -- a 0.03% polyvinyl alcohol 13.0% cutlet arbour extract (example 5 of manufacture) -- a 1.0% MAITENO extract (example 6 of manufacture) -- 1.0% ethanol 7.0% purified water [ ] -- 62.77% [0054](Embodiment 13) Emulsified type foundation following component (1) Set to A the powder part which fully carried out preferential grinding of - (6), and let B liquid, (9) - (12), and (14) be C liquids for (7) and (8). After heating and stirring C liquid, A is added, homomixer treatment is carried out, B liquid which carried out overheating mixing further is added, and homomixer treatment is carried out. It cools to 50 \*\*, agitating, (13) is added, and it cools and \*\* to a room temperature further.

(Component) (weight %)

(1) Titanium dioxide 10.3% (2) sericite . 5.4% (3) kaolin 3.0% (4) Synthetic Ochre . 0.7% (5) red ocher 0.4% (6) black-iron-oxide . 0.2% (7) decamethyl cyclopentasiloxane . 11.5% (8) liquid paraffin 8.5%. (9) sorbitan sesquioleate [ ] -- 3.0% (10) -- Jatoba extract (example 1 of manufacture) 1.5%5.0% parahydroxybenzoic-acid [ (12) ] ester 0.2% perfume [ (13) ] 0.2% (14) purified water [ ] -- 50.1% [ (11) 1,3-butanediol ][0055](Embodiment 14) Cake makeup following component (1) - (7) is uniformly mixed with a blender and (8) - (14) is added to this, and it often kneads and \*\*.

(Component) (weight %)

(1) Talc 42.4% (2) kaolin . 15.5% (3) sericite 10.0%. (4) Zinc white 7.0% (5) titanium-dioxide . 3.8% (6) Synthetic Ochre 2.9% (7) black-iron-oxide . 0.2% (8) squalane 8.0% (9) isostearic acid 4.0% (10) monooleic acid polyoxyethylene sorbitan 3.0% octanoic-acid [ (11) ] isocetyl 2.0% rose-apple [ (12) ] extract (example 7 of manufacture). 1.0% parahydroxybenzoic-acid [ (13) ] ester 0.1% (14) perfume 0.1%[0056]Each cosmetic of the above-mentioned Embodiments 8-14 is excellent in the anti-aging effect of the skin.

[0057]

[Effect of the Invention]As explained above, collagenase inhibitor and the cosmetic for anti-aging of this invention have the outstanding collagenase inhibiting activity, and can maintain the status of a youthful skin without prevention of aging of the skin, and the crease which improves and is elastic and sag.

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[Translation done.]